

U N I V E R S A L

**RCA**

Compatible with  
today's most  
popular brands.

## Remote



**TV**



**DVD or AUX**



**VCR**



**DBS or CABLE**

**Consolidates  
up to 4  
remotes**

**Lighted  
component  
keys indicate  
operating  
mode**

**Dedicated  
MENU key  
for DVD  
navigation**

**remote**

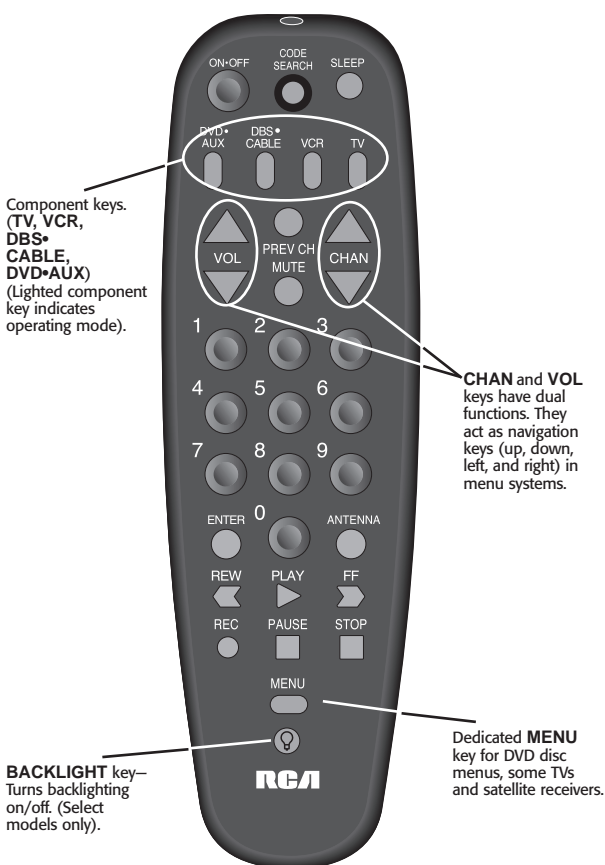
See back  
for most  
popular brands.

**Multi-Brand Use**

**RCU450**

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Actual model may vary from picture shown



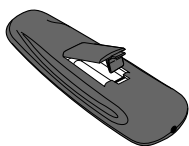
## 4 Component Universal Remote

Congratulations on your purchase of the 4 component universal remote by RCA. This universal remote controls up to four electronic components and makes juggling remote controls a thing of the past. You can program this RCA universal remote to operate most models of most brands of infrared, remote-controlled components manufactured after 1990. (See the enclosed Code List for a complete list of brands.) The 4 component universal remote is easy to use, easy to program and gives you control at the touch of your fingertips.

**Note:** The 4 component universal remote is already programmed to operate most RCA, GE and PROSCAN branded TVs, VCRs, DVD players and satellite receivers (DBS). Just press the corresponding component key—**VCR** for a VCR; **DVD•AUX** for a DVD player; **TV** for a television; **DBS•CABLE** for a satellite receiver or a cable box.

## Battery Installation and Information

Your universal remote requires two AAA Alkaline batteries (batteries may or may not be included, depending on model). To install the batteries:



1. Remove the battery compartment cover.
2. Insert the batteries, matching the batteries to the (+) and (–) marks inside the battery compartment.
3. Press and push the battery cover back into place.

**Note:** Reprogramming may be required after batteries are replaced.

## Key Descriptions



**Component keys (DVD•AUX, DBS•CABLE, VCR, TV):** select the component you want the remote to operate. (Lighted component key indicates operating mode).

For example, after you've programmed the remote to operate your TV, you must press the **TV** key first to put the remote in TV Mode. While in TV Mode, the **CHAN** keys change the channel on the TV, the **VOL** keys adjust the TV's volume, etc.

**Transport keys—REW (Rewind), PLAY, FF (Fast Forward), PAUSE, STOP:** operate the same as your original VCR or DVD remote control, although key labels may vary (**REVERSE, FORWARD**).

**Backlight Key (select models only)—**turns backlighting on/off. Backlighting will remain on for approximately 6 seconds after last keypress to conserve battery life.

## Other Keys (listed alphabetically)

**0-9** (Number Keys): operate the same as number keys on your original remote and are used to enter component codes when programming the remote control with Direct Entry method.

**ANTENNA:** in TV mode, switches between the signal coming from a satellite receiver or cable box and an off-air antenna. In VCR mode, switches between the signal coming from a VCR and a TV.

**CHAN** (Channel) **UP AND DOWN:** goes to the next highest or lowest channel number in the component channel list, respectively, except for DVDs. In DVDs, the **CHAN UP/DOWN** goes to the **NEXT/PREVIOUS** chapter. Additionally, when you're using the remote with On-screen Menus, the **CHAN** keys act as **UP ARROW** and **DOWN ARROW** keys (moving the cursor or highlight up or down).

**CODE SEARCH:** use to program the remote.

**ENTER:** use with Manual or Auto Code Search method to accept code (See Code Search on page 9). Also, some brands require you to press the **ENTER** key after you enter a channel number. In some menu systems, you must press **ENTER** to select a highlighted item.

**MENU:** accesses DVD disc menus when **DVD•AUX** key is programmed to operate a DVD player. Accesses menu systems of some TVs, a few RCA brand VCRs and satellite receivers. (For more information, refer to Using On-screen Menus section on page 11).

**MUTE:** lowers the TV's volume to its minimum level.

**ON•OFF:** turns component on and off.

**Note:** Some RCA, GE and PROSCAN models require that you press the component key to turn ON the component and the **ON•OFF** key to turn OFF the component.

**PREV CH** (Previous Channel): switches back to previous channel—operates the same as **LAST CHANNEL, GO BACK** or **RECALL** key found on some brands of remote controls.

**REC** (Record): use with VCR to record programming. You must press the **REC** key twice to start recording.

**SLEEP:** allows you to set a time to turn off your TV automatically.

**VOL** (Volume) **UP** and **DOWN:** increases or decreases the TV's volume level. Additionally, when you're using the remote with On-screen Menus, the **VOL** keys act as **RIGHT** or **LEFT ARROW** keys (moving the highlight or cursor right or left).

# Program for TV— Direct Entry Method

In order for the four component universal remote to control your TV, you must program it with the TV code that matches your TV. These instructions explain the preferred method of programming the remote—the Direct Entry method.

## CODE SEARCH



DVD•  
AUX



DBS•  
CABLE



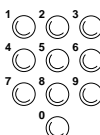
VCR



TV



TV



## ON•OFF



## TV CODE

TV CODE		

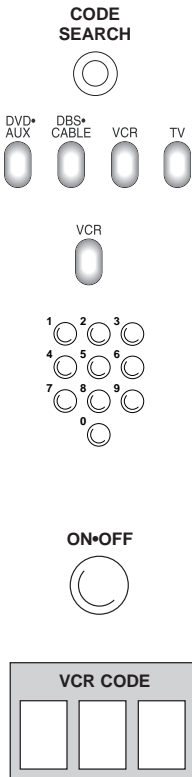
1. Manually turn on the TV.
2. Locate the enclosed TV Code List. Find your brand of TV.  
**Note:** If your brand isn't listed, use one of the Code Search methods to program this remote control (See Code Search on page 9).
3. Press and hold the **CODE SEARCH** key for approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
4. Press and release the **TV** key. The **TV** key remains lit.
5. Use the number keys to enter the first code listed for your brand. After you enter a valid 3-digit code, the component key light turns off.  
**Note:** If you enter an invalid code, the lighted component key will flash rapidly. Start over at step 3.
6. Aim the remote at your TV and press the **ON•OFF** key. If your TV turns off, you have found the correct code.
7. Enter the code in the box provided on this page for future reference.
8. If your TV doesn't turn off, repeat steps 3-6 above, entering the next code for your brand.

If none of the codes work or your brand is not listed, use one of the Code Search methods to program this remote (See Code Search on page 9).

For a description of each key on the remote control, refer to the Key Descriptions section on page 3-4.

# Program for VCR— Direct Entry Method

In order for the four component universal remote to control your VCR, you must program it with the code that matches your VCR. These instructions explain the preferred method of programming the remote—the Direct Entry method.



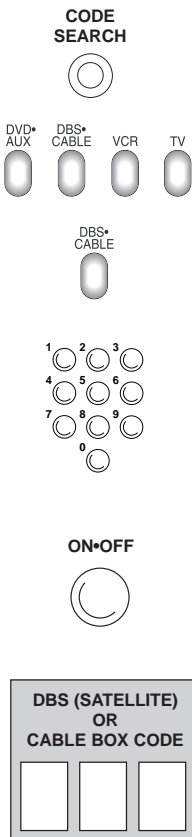
1. Manually turn on the VCR.
2. Locate the enclosed VCR Code List. Find your brand of VCR.  
**Note:** If your brand isn't listed, use one of the Code Search methods to program this remote control (See Code Search on page 9).
3. Press and hold the **CODE SEARCH** key for approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
4. Press and release the **VCR** key. The **VCR** key remains lit.
5. Use the number keys on the remote to enter the first code listed for your brand. After you enter a valid 3-digit code, the component key light turns off.  
**Note:** If you enter an invalid code, the lighted component key will flash rapidly. Start over at step 3.
6. Aim the remote at the VCR. Press the **ON•OFF** key. If your VCR turns off, you have found the correct code.
7. Enter the code in the box provided on this page for future reference.
8. If your VCR doesn't turn off, repeat steps 3-6 above, entering the next code for your brand.

If none of the codes work or your brand is not listed, use one of the Code Search methods to program this remote (See Code Search on page 9).

For a description of each key on the remote control, refer to the Key Descriptions section on page 3-4.

# Program for Satellite or Cable Box— Direct Entry Method

In order for the four component universal remote to control your satellite or cable box, you must program it with the code that matches your component. The **DBS•CABLE** key can be programmed to operate either a satellite receiver or a cable box. These instructions explain the preferred method of programming the remote—the Direct Entry method.



1. Manually turn on the satellite receiver or cable box.
  2. Locate the enclosed Satellite or Cable Box Code List. Find your brand in the Satellite Codes or Cable Box Codes section, respectively.
 

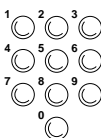
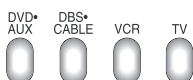
**Note:** If your brand isn't listed, use one of the Code Search methods to program this remote control (See Code Search on page 9).
  3. Press and hold the **CODE SEARCH** key for approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
  4. Press and release the **DBS•CABLE** key. The **DBS•CABLE** key remains lit.
  5. Use the number keys on the remote to enter the first code listed for your brand. After you enter a valid 3-digit code, the component key light turns off.
 

**Note:** If you enter an invalid code, the lighted component key will flash rapidly. Start over at step 3.
  6. Aim the remote at the satellite receiver or cable box and press the **ON•OFF** key. If your Satellite receiver or cable box turns off, you have found the correct code.
  7. Enter the code in the box provided on this page for future reference.
  8. If your satellite receiver or cable box doesn't turn off, repeat steps 3-6 above, entering the next code for your brand. If none of the codes work or your brand is not listed, use one of the Code Search methods to program this remote (See Code Search on page 9).
- For a description of each key on the remote control, refer to the Key Descriptions section page 3-4.

# Program for DVD•AUX— Direct Entry Method

In order for the four component universal remote to control your DVD player or auxiliary component, you must program it with the code that matches your component. The **DVD•AUX** key can be programmed to operate a DVD player or a second TV, VCR, DBS or cable box. These instructions explain the preferred method of programming the remote—the Direct Entry method.

## CODE SEARCH



## ON•OFF



DVD•AUX CODE				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/> TV	<input type="checkbox"/> VCR	<input type="checkbox"/> CABLE	<input type="checkbox"/> DBS	<input type="checkbox"/> DVD

1. Manually turn on the component you wish to assign to the **DVD•AUX** key (TV, VCR, DVD, DBS System or Cable Box).
2. Locate the enclosed DVD code list, or the corresponding code list for the auxiliary component (TV, VCR, DBS, or cable box).

**Note:** If your brand isn't listed, use one of the Code Search methods to program this remote control (See Code Search on page 9).

3. Press and hold the **CODE SEARCH** key approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
4. Press and release the **DVD•AUX** key. The **DVD•AUX** key remains lit.
5. To program for DVD, press the **VCR** key. For an auxiliary component, press the corresponding component key (**TV**, **VCR**, **DBS•CABLE**).
6. Use the number keys on the remote to enter the first code listed for your brand.

After you enter a valid 3-digit code, the component key light turns off.

**Note:** If you enter an invalid code, the lighted component key will flash rapidly. Start over at step 3.

7. Aim the remote at your component and press the **ON•OFF** key. If your component turns off, you have found the correct code.
8. Enter the code in the box provided on this page for future reference.
9. If your component doesn't turn off, repeat steps 3-7 above, entering the next code for your brand.

If none of the codes work or your brand is not listed, use one of the Code Search methods to program this remote (See Code Search on page 9).

For a description of each key on the remote control, refer to the Key Descriptions section page 3-4.

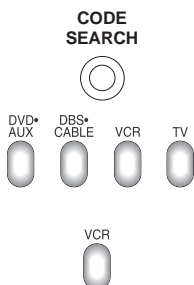


# Code Search Methods

If your component's brand isn't listed in the Code List or you have tried all of the codes for your brand and the remote does not operate your component, use one of the Code Search methods below—Manual Code Search or Auto Code Search. Both Code Search methods search all of the codes because your component's code may be listed under another brand in the code list.

**Note:** The Code Search method may take a long time because the remote searches all of the codes in its memory for the code which operates your component. Therefore, if your brand is listed in the Code List, use the Direct Entry method described on pages 5-8.

## Manual Code Search



1. Manually turn on the component you want the remote to operate.
2. Press and hold the **CODE SEARCH** key for approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
3. Press and release the component key that corresponds to the component you want the remote to operate (**TV**, **VCR** or **DBS•CABLE**). The chosen component key remains lit.

**Note:** For DVD or AUX, press **DVD•AUX**, then the component key corresponding to the component to be stored under the **AUX** key. For DVD, press **DVD•AUX**, then the **VCR** key. For an auxiliary component, press **DVD•AUX**, then the corresponding component key (**TV**, **VCR**, **DBS•CABLE**).

**ON•OFF**



4. Aim the remote at the component and press the **ON•OFF** key continuously until the component turns off. The component key remains lit during this process, blinking each time you press the **ON•OFF** key.

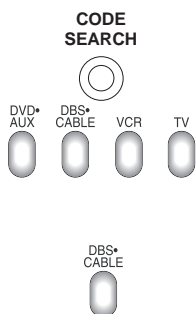
**Important:** Because there are so many codes, you may have to press the **ON•OFF** key many times—possibly up to 200 times.

**ENTER**



5. When the component turns off, press the **ENTER** key immediately to store the code. The lighted component key then turns off.
6. Use Code Retrieval on the next page to identify the code for your component for future reference.

## Auto Code Search



ON•OFF



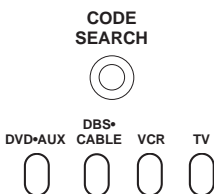
ENTER



1. Manually turn on the component you want the remote to operate.
2. Press and hold the **CODE SEARCH** key for approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
3. Press and release the component key that corresponds to the component you want the remote to operate (**TV**, **VCR**, or **DBS•CABLE**). The chosen component key remains lit.  
**Note:** For DVD or AUX, press **DVD•AUX**, then the component key corresponding to the component to be stored under the **AUX** key. For DVD, press **DVD•AUX**, then the **VCR** key. For an auxiliary component, press **DVD•AUX**, then the corresponding component key (**TV**, **VCR**, **DBS•CABLE**).
4. Aim the remote at the component and press the **ON•OFF** key once. The remote automatically sends every code for the specified component one at a time, with a three second delay between each code. The lighted component key blinks each time a new code is sent. Keep the remote aimed at the component throughout the process.
5. As soon as the component turns off, you must press the **ENTER** key immediately so the remote stores the correct code. The lighted component key then turns off. If you don't press **ENTER** within three seconds, the remote will send the next code in the list, and you will have to start over from step 2.
6. Use Code Retrieval to identify the code for your component for future reference.

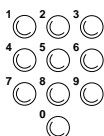
## Code Retrieval

If you used one of the Code Search methods to program your remote, follow the steps below to find out which code is compatible with your component. Finding the actual code and writing it down will save you time if you ever need to program the remote again (e.g., if programming is lost when you change the batteries).



1. Press and hold the **CODE SEARCH** key for approximately three seconds until all four component keys light up. Then release the **CODE SEARCH** key.
2. Press and release the component key that matches the component's code you are retrieving (**TV**, **VCR**, or **DBS•CABLE**). The chosen component key remains lit.

#### CODE SEARCH



**Note:** For DVD or AUX, press **DVD•AUX**, then the component key corresponding to the component stored under the **AUX** key. For DVD, press **DVD•AUX**, then the **VCR** key. For an auxiliary component, press **DVD•AUX**, then the corresponding component key (**TV**, **VCR**, **DBS•CABLE**).

3. Press and release the **CODE SEARCH** key. The component key light turns off.
4. Starting with 0 on the keypad, press the number keys in order (0-9) until the component key light blinks.

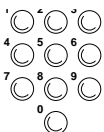
**Note:** For DVD or AUX, press **DVD•AUX**, then the component key corresponding to the component to be stored under the **AUX** key. For DVD, press **DVD•AUX**, then the **VCR** key. For an auxiliary component, press **DVD•AUX**, then the corresponding component key (**TV**, **VCR**, **DBS•CABLE**).

5. The number that causes the component key light to blink is the first digit of your code.
6. Repeat step 4 until you have retrieved all three numbers of the code.
7. Refer to the code box to write down the code for your component within the Direct Entry Section (pages 5-8) for the component just programmed.

## Sleep Feature

This feature will automatically turn off your TV at a duration you choose from 1 to 99 minutes.

#### SLEEP



#### SLEEP



OR

#### ON•OFF



### PROGRAMMING SLEEP FEATURE

1. Press and hold the **SLEEP** key until the **TV** component key lights. Release the **SLEEP** key.
2. Enter time in minutes using the numerical key pad. The **TV** component key light turns off. (Minute 1 thru 9: press 0 before the actual number. Maximum: 99 minutes).
3. Leave remote aimed at television. (Sleep Feature will not work unless remote is left aimed at television.)

### CANCELING THE SLEEP TIMER

The Sleep Timer program will be canceled and reset to zero by either of the following.

1. Press and hold the **SLEEP** key until the **TV** component key blinks.
2. Press the **ON•OFF** key, turning the TV off.

# Using On-screen Menus

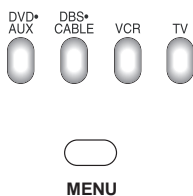
This remote cannot access every menu system of all models and brands of consumer electronics components. However, if you've successfully programmed the **DVD•AUX** key to operate a DVD player, you can access DVD disc menus with the **MENU** key.

The **MENU** key will also access TV menu systems for most RCA, GE and PROSCAN TVs, as well as some other popular brands. Also, some RCA VCR menus are supported by this remote's menu key. This remote also supports select satellite receiver menus.

If this remote's **MENU** key doesn't access the menu system for your component, you'll need to use the original remote to change menu settings.

**Note:** This remote's **MENU** key doesn't support cable box menu systems and some VCR menu systems.

## Accessing a Menu System



1. Make sure your components are turned on and your TV is set to the component's input.
2. Press the component key on the remote (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**). The chosen component key will blink once.
3. Press the **MENU** key. The chosen component key blinks continuously to indicate the remote is in Menu Mode and the component's menu should appear on the TV screen.

## Highlighting and Selecting Menu Items

To navigate On-screen Menus, use the **VOL UP/DOWN** and/or **CHAN UP/DOWN** keys.

**VOL UP/DOWN** keys move the cursor (or the highlight) right/left. **CHAN UP/DOWN** keys move the cursor (or the highlight) up/down.

For RCA, GE or PROSCAN products, press the **MENU** or **ENTER** key to select the highlighted item. If menu items have numbers next to them, you can use the number keys to select an item. Additionally, the **ENTER** key can be used to select menu choices.

For Sony products, pressing the **ENTER** key while in Menu Mode returns you to the previous menu.



This is an example of a DVD disc On-screen Menu. English is the menu choice highlighted. Using this remote control, you would press the **ENTER** key to select English.

To highlight another language, you would press the **CHAN DOWN** key (In the example above, the highlight would move to Español).

### Notes:

All functions in competitive models and brands of products may not be fully supported.

The remote will automatically time out in Menu Mode and the lighted component key will stop blinking after approximately 10 seconds of inactivity (no keys being pressed). For DVD menus, the Menu Mode will time out after approximately 15 seconds.

Because of the wide variety of menu formats, some experimenting may be required.

## Exiting a Menu System

To exit Menu Mode, press the corresponding component key on the remote (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**). The lighted component key turns off and the remote reverts to its normal mode of operation.

## Troubleshooting

### Problem: The remote can't be programmed to operate your component.

- You may be too far away from the component or at a wrong angle. This remote uses IR (infrared) technology to communicate with components. The remote sends the code and the component's IR sensor reads the code. Therefore, there must be an unobstructed path between the remote and the IR sensor on the component. Move closer and make sure you point the remote at the component (VCR when programming the **VCR** key; TV when programming the **TV** key; cable box or satellite receiver when you're programming the **DBS•CABLE** key; DVD Player when programming the **DVD•AUX** key).
- If you've entered all of the codes for your brand that are in the accompanying Code List and followed the instructions, try one of the Code Search methods (See Code Search on page 9).
- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**) so the remote knows which component you want to operate.
- To program the 4 component universal remote to operate a combination unit (TV/VCR or TV/DVD), first try the VCR or DVD codes for your brand. Some units, however, require that you program both the **TV** key (using the TV codes) and the **VCR** or **DVD•AUX** key (using the VCR or DVD codes) for full operation.
- To program the 4 component universal remote to operate a combination unit (VCR/DVD), program the **VCR** key using the VCR codes and then program the **DVD•AUX** key using the DVD codes.

**Problem: The remote does not operate your component.**

- You may have pressed an invalid key for the mode the remote is in (for example, **REC** only works in VCR Mode).
- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**) so the remote knows which component you want to operate.
- Remove any obstacles between the remote and the component. Make sure to aim the remote at the IR sensor on the component.
- Make sure the batteries are properly installed (See Battery Installation on page 3).
- Replace the batteries with two new AAA batteries. Reprogramming may be required.
- Reset the remote. Remove the batteries, then press and hold the number 1 key on the remote for several seconds to reset the microprocessor inside the remote. Release the number 1 key, reinstall the batteries, and try the remote again. Reprogramming will be required.

**Problem: The remote is not performing commands properly.**

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**) so the remote knows which component you want to operate.
- Make sure component is “ready” (e.g., DVD player has disc loaded; VCR has tape loaded, etc.).
- You may have pressed an invalid key for the mode the remote is in (for example, **REC** only works in VCR mode).
- If you’re trying to turn on an RCA, GE or PROSCAN component, press the component key (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**) instead of the **ON•OFF** key.
- If operating a VCR to record, you must press the **REC** key two times.
- If you’re trying to change channels, try pressing the **ENTER** key after entering the channel number as this is a requirement of certain models and brands.
- There is a possibility that a programmed code may only be able to control some of your component features (e.g., only turns a component on and off). Follow the steps provided for programming the remote (See Programming Sections on pages 5-7). If the component can be turned on and off, make sure you press the **CHAN UP/DOWN** key to see if the component responds. If not, try the next code from the list.

**Problem: The VCR won’t record.**

- As a safety feature, you must press the **REC** key twice to begin recording.
- Make sure the tape is properly loaded in the VCR.
- Make sure the tape is not write-protected. If the safety tab is removed, the tape is write-protected and you cannot record onto that tape.

**Problem: The remote will not change channels.**

- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**) so the remote knows which component you want to operate.
- Press the **ENTER** key after you enter a channel number.

**Problem: The component's menu doesn't appear on the TV screen.**

- The TV must be tuned to the Video Input that matches the manner in which you connected the component to the TV. For example, if you connected your DVD player to your TV by connecting audio/video cables (usually color-coded yellow, red, and white) to the TV's Input 1 jack, you must tune the TV to its Video Input 1 channel. Remember, different manufacturers label these jacks differently. Consult the instruction manual that came with the TV for more information.
- You must put the remote in the correct mode by pressing the corresponding component key (**TV**, **VCR**, **DVD•AUX**, or **DBS•CABLE**) so the remote knows which component you want to operate.
- Menu access isn't supported for all brands. If that's the case, you'll need to use your original remote control to access menu functions for these components.

**If you have further questions, please visit [www.rca.com](http://www.rca.com).**

## Limited 90-Day Warranty

THOMSON INC. warrants that, for 90 days from date of purchase, it will replace this product if found to be defective in materials or workmanship. Return it postage prepaid to the Product Exchange Center address for a prompt, no-charge replacement with a current equivalent. This replacement is THOMSON INC.'s sole obligation under this warranty. THOMSON INC. will not be responsible for any incidental or consequential damages or for any loss arising in connection with the use or in ability to use this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty excludes defects or damage due to misuse, abuse or neglect. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Product Exchange Center  
11721 Alameda Avenue  
Socorro TX 79927

SET-UP  
INSTRUCTIONS  
INSIDE

# Consolidate four remote controls into one!

## Operates up to four components, including:

- TV
- VCR
- Satellite receiver or Cable box
- DVD or AUX

## Dedicated MENU key

Operates menu system of major TV brands (most RCA, GE, and PROSCAN), and some other popular brands. Operates DVD disc menus!

## Compatible with today's most popular brands!

Your RCA universal remote control is compatible with most brands of infrared remote-controlled components manufactured after 1990. Some well-known brands are shown below. The complete list of brands is found on the code list inside this package. **The remote already operates most RCA, GE and PROSCAN products without any programming!**

TV	DVD	VCR	SAT	Cable
Apex Audiovox Broksonic Citizen Curtis Mathes Daewoo Emerson <b>GE</b> Hisense Hitachi JC Penney JVC Kenwood LG (Goldstar) LXI Magnavox Mitsubishi Montgomery Ward NEC Orion Panasonic Philco Philips Pioneer Prima <b>PROSCAN</b> Quasar RadioShack/ Realistic <b>RCA</b> Samsung Sanyo Sears Sharp Sony Sylvania Tandy Teknika Toshiba Victor Wards Yamaha Zenith	Aiwa Apex Broksonic Daewoo Emerson Funai Go-Video Hitachi JVC Kenwood Konka Magnavox Memorex Mintek Mitsubishi NAD Onkyo Orition Panasonic Philips Pioneer <b>PROSCAN</b> Qwestar <b>RCA</b> Samsung Sansui Sanyo Sharp Sony Sylvania Toshiba Zenith	Canon Curtis Mathes Daewoo Emerson <b>GE</b> Go-Video Hitachi JC Penney JVC Kenwood LG (Goldstar) LXI Magnavox Matsushita Mitsubishi Montgomery Ward NEC Panasonic Philco Philips Pioneer <b>PROSCAN</b> Quasar RadioShack/ Realistic <b>RCA</b> Samsung Sanyo Sears Sharp Sony Sylvania Tandy Teknika Toshiba Victor Wards Yamaha Zenith	Alphastar Dish Network Echostar Express Vu <b>GE</b> Hitachi Hughes JVC Magnavox Motorola Panasonic Philips Primostar <b>PROSCAN</b> <b>RCA</b> Sony Star Choice Toshiba Uniden	ABC Archer Cableview Citizen Garrard GC Electronics GE General Instruments Jerrold Motorola Philips Pioneer RCA Scientific Atlanta United Cable Universal View Star Zenith



Date Code

**Requires two AAA batteries (sold separately).**  
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